

THE Y-12 BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide And Carbon Corporation

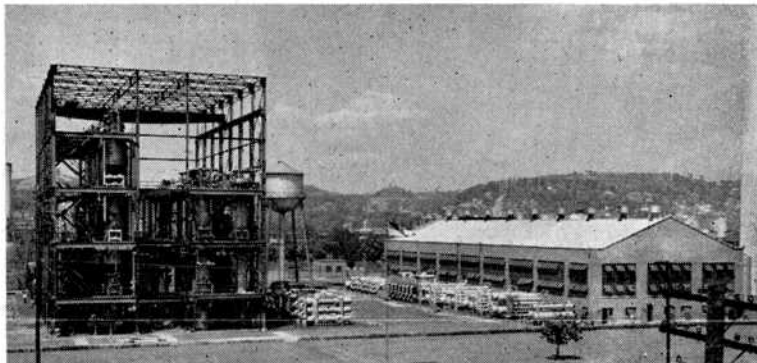
Volume 4, No. 7

OAK RIDGE, TENNESSEE

Wednesday, February 15, 1950



ON BLAINE ISLAND, SHAPED LIKE A BATTLESHIP, IN THE KANAWHA RIVER AND ON both sides of the river sprawls the big South Charleston main plant of Carbide and Carbon Chemicals Division of Union Carbide and Carbon Corporation, shown above.



HERE ARE TWO TYPICAL CHEMICAL UNITS AT THE South Charleston plant. At left is a gas separation plant while at right is a furnace building. In such units natural gas and other raw materials are processed into chemicals for many important commercial uses.

West Virginia's 'Magic Valley' Is Home Of Carbide's Main Plant

America's "Magic Valley" is in the green hills of West Virginia. The valley is a curving furrow, roughly 50 miles long, that has been cut into the wrinkled face of West Virginia by the swift moving Kanawha River. Through this furrow, strung like giant beads on the "string" made by the river, are some of America's largest chemical and other industrial plants. From them comes a long list of products that seem to have popped right out of the top hat of a master magician.

At South Charleston, in the heart of the valley, the Kanawha River eddies around mile-long Blaine Island, which is shaped like a battleship. The island's flat surface bristles with towering stacks, red-brick buildings, and silvery storage tanks. Running between them, in a check-board pattern, are miles of black pipes. Two bridges and many pipe lines link the island to one shore, where there are more red-brick buildings and stacks; massive spiderwebs of steel-work that hold glittering columns, and a 10-story office building that dominates the scene.

Mother Plant For Chain

This is the South Charleston plant of Carbide and Carbon Chemicals Division of Union Carbide and Carbon Corporation and mother plant for most of the chemicals chain. This plant began operations 25 years ago on only 10 acres of land on the river bank. Within a few years, the plant spilled over onto Blaine Island and spread out on the bank so that it now covers more than 200 acres.

What goes on at South Charleston? The first thing to do is to get a general idea of just what the plant does in making chemicals. Briefly, here's what happens. The plant gets a flood of raw materials every day. It works on them with the four tools of the chemical industry: extreme heat, extreme cold, high pressure and vacuum. These "tools" cause the molecules in the raw materials to be rearranged into new patterns. Some duplicate the patterns of natural materials.

(Continued on Page 4)

Electricians Regain Lead In Attendance

Dept. 2077, Electrical Maintenance, which has led the Major League of Y-12 departments in attendance more than any one other group for the past several months, jumped back into the lead for the week ending February 5 after an absence of two weeks. The department's absentee record for the week ending February 6 was 1.1 per cent.

Analytical Laboratory Second

Second place in the Major League standing was held by the Analytical Laboratory with an absentee mark of 1.6 per cent. This department rose from fourth place held the preceding week. In third place, dropping down from second held the previous reporting period, was the Guard Department with an even two per cent of its personnel absent.

In the Minor League only four departments reported perfect attendance records for the week ending February 5, two of which were repeaters from the preceding week. The repeaters were Transportation and Manufacturing Offices.

The Uranium Control and Com-
(Continued on Page 2)

Y-12ers Will Attend Maryville ACS Meet

A number of Y-12 chemists have announced their intention of going to Maryville, Tenn., tomorrow night, Thursday, February 16, to attend a meeting of the East Tennessee Section of the American Chemical Society. Dr. Henry Eyring, dean of the graduate school and professor of chemistry at the University of Utah, will be the principal speaker.

Dr. Eyring will speak at 8:15 o'clock at Pearson's Hall and the meeting will be preceded by a dinner at 7 o'clock in the same building. Y-12ers who have not yet made reservations and who intend to attend the dinner are urged to communicate with L. J. Brady, telephone 7242, to complete arrangements for the meal.

The topic of Dr. Eyring's address will be "Application of Modern Reaction Rate Theory to Living Systems." The speaker's major fields of specialization have included radioactivity, application of quantum mechanics to chemistry, the theory of reaction rates and the theory of liquids. He obtained his B.S. degree in mining engineering in 1923 and his M.S. degree in metallurgical engineering in 1924 from the University of Arizona. He was given his Ph.D. degree in chemistry from the University of California in 1927. He has held his present post since 1946.

Dr. G. E. Evans Will Lead Physics Seminar Discussion

Dr. George E. Evans, of the Physics Division of the Oak Ridge National Laboratory, will address the weekly meeting of the Oak Ridge Physics Seminar at 4 o'clock Friday afternoon, February 17. The meeting will be held in the East Lounge of the Ridge Recreation Hall.

The topic of Dr. Evans' discussion will be "Group-Theoretical Method In Molecular Spectroscopy." Scientific and technical personnel of Y-12 interested in the subject are invited to attend the seminar session.

BACK TO SALT MINES?

Recent news stories declare that the use of a huge salt mine under Detroit, Mich., as an atomic bomb shelter is being considered. The cavern has been surveyed with the idea of establishing shelter for military stores or even for war plants, it is stated.

2,000,000 Accident-Free Hours Worked In Y-12; Plant Also Cuts Frequency And Severity Records

Employees of Y-12 successfully marched past the 2,000,000 man-hours worked without a disabling accident on January 31 when Safety Department records showed the exact figures as of that date to be 2,017,412. As a result the plant is well on its way to passing the record of approximately 2,850,000 accident-free hours that was established from August 24, 1948, to April 25, 1949. This goal, however, still is just an intermediate point toward the main objective—of keeping the plant free of lost time accidents, with their painful and costly consequences, for an indefinite period.

Meanwhile the safety scoreboards at each Y-12 portal are showing the accident-free number of days to be steadily growing and nearing the 246 mark that was reached April 25, 1949, when a disabling accident broke the long string of safe days of operation.

However, it is pointed out that when the 246-day figure is reached it will not mean that the same number of man-hours worked without a lost time accident will have been attained as was the case last April.

Only Two During 1949

All Y-12ers can well be proud of the plant safety record to which they are contributing. During 1949 there were but two lost time accidents in the plant, the last one occurring May 31 with the present record beginning June 1.

As a result of having only two lost time accidents in 1949, Y-12 employees have again lowered the annual frequency and severity rate of accidents from the previous year of 1948, which in turn was below the 1947 figure.

The accident frequency rate is described as the number of lost time accidents per 1,000,000 man-hours worked during the year. The severity rate is based on the number of days lost from accidents per 1,000 man-hours worked.

The 1949 accident frequency rate in Y-12 was an extremely low .57 per cent, a reduction of 80.7 per cent from 1948. The Y-12 severity rate was .068 in 1949, a reduction of 72.7 per cent from the preceding year.

Comparison Over Years

Here's how the Y-12 safety program has resulted in steady declines in both of these categories:

	1949	1948	1947
Frequency	.57	2.96	4.81
Severity	.068	.289	1.47

Distribution of safety award selection cards throughout the plant will be completed this week and before long all eligible Y-12ers who helped the plant pass the 1,500,000 man-hours worked without a lost time accident early in December will receive their handsome selections. Eligible employees have a selection of seven awards from which to pick their choice and everyone is urged to make a first and second choice of awards. It also is important that every eligible employee signing a selection card give his payroll and department number.

Three Y-12 Men Write Articles For Technical Publications

Technical articles have been published by three Y-12ers during recent months in scientific publications that have wide circulation.

The Journal of The Optical Society carried two of these articles in its December, 1949, issue. One was entitled "Nomograph of Hg 5461 Structure as a Function of Etalon Separation." It was written by Dr. J. Rand McNally, of the Isotope Research and Production Department. It appeared on Page 1,050 of the Journal.

On Page 1,035 of the publication is another article authored jointly by Dr. McNally, Paul M. Griffin and L. E. Burkhart, all of the Isotope Research and Production Department. It is entitled "Possibility of Enhanced Hg 202 as a Source of Monochromatic Light."

The third article was published in the February, 1950, issue of "Industrial Supervisor," issued by the National Safety Council. It is entitled "Grounding For Safety" and was written by Paul C. Ziemke, of the Y-12 Safety Department.

Analytical Chemists To Meet February 27

The recently organized group of analytical chemists of the East Tennessee Section of the American Chemical Society will elect officers and hear a report of a committee drafting by-laws at a meeting set for 7:30 o'clock Monday night, February 27, in Room 9, Oak Ridge Institute of Nuclear Studies. Dr. Charles J. Barton, of Y-12, who took a leading part in organizing the group and who presided at the first meeting January 23, will preside at the February 27 meeting.

In addition to the election and discussion of by-laws, the analytical chemists will hear an address by Charles Horton, of K-25, on "The Determination of Fluorides."

Warren Grimes, of Y-12, is on the nominating committee that will submit a slate of officers for the group at the February 27 meeting, when a chairman and secretary-treasurer will be selected. H. P. House, also of Y-12, is a member of the committee drafting by-laws to submit to the membership.

NEW PARTICLE HINTED

Press dispatches recently quoted University of Rochester, N. Y., scientists as having photographic plates showing evidence of a new atomic particle, the neutral meson. The university scientists obtained evidence on plates carried 19 miles into the air by balloons released near Harrisburg, Pa.

SAFETY SCOREBOARD

Your Plant Has
Operated
236 DAYS
Without A Lost Time
Accident
THROUGH FEB. 12

Y-12 Bulletin

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Do I Just Live Here?—Or Am I Good Citizen?

Am I a good citizen, or do I just live here?

Have you ever asked yourself that question? Have you ever checked up as to how much of yourself you give to the affairs of your home community?

There's a difference between just living in a town or country and being a good citizen of that town. It's possible to live all our lives, paying our bills, respecting the rights of others, raising a family and still not contribute as much as we can or should to our town.

Time And Interest Count

It matters little what kind of a house we live in or how much money we have. It's time and sincere interest that are the magic wands to being a good citizen. Time given for active participation in such organizations as the civic clubs, the Red Cross the Community Chest, the Boy Scouts or the Girl Scouts—a sincere interest in voting in every election—time spent in active church work and with the local cultural societies—a sincere interest in improving our town and providing recreational facilities for its citizens. These are the things that make us good citizens.

Good citizenship carries over into our jobs too. Business is a cooperative venture between those who supply the labor. Our Carbide Y-12 plant here at Oak Ridge is a definite part of the community just like the churches, clubs and schools. We are good citizens on our jobs when we look at the problems our Company faces and put time and sincere interest into making our jobs and our plant mean as much to us and the community as we can.

Hate To Work For Benefits

Too many of us feel that there are things in this country that are due us—such as a good education for our children, or the right to make a living. But these are the very things that other good citizens have given to us by their time and sincere interest in the affairs of their community and country. We have to work to keep them. We cannot just expect to have them.

New Fuel 'Char' Described As Boon To Smoky Cities

Residents of smoke-shrouded industrial cities may look forward to a newly developed fuel called "char." The new fuel is said to be clean, both smokeless and gasless. It has been adopted by many industries in Salt Lake City where the smoke problem was very acute.

The new fuel was developed by Elmer H. Record, of Seattle, Wash. after 30 years of research. In the course of his work on this process alone, he obtained 67 different patents.

Char is one of the principal by-products of coal, produced by a "thermal chemical carbonization and distillation of coal." One ton of coal yields 1,400 pounds of char. The residue is utilized in a variety of commercial products.

Char is being produced in commercial quantities by Record Coal Processing Corporation, at Wellington, Utah.

"When you married me, you weasel, I thought you were daring and courageous."

"That's nothing. Everyone else thought the same thing."

STRICTLY Confidential

Howdy folks. Here's a little information about you all gathered from hither and yon around Y-12. Anyone that knows anything about anything that might be of interest to anyone—how about letting us know about it? P'raps somebody else might like to know, too.

Hazel Lane, of Medical, and her husband, accompanied Penny Keene, also of Medical, and her husband, Oliver Keene, of Property, on a week-end trip over to Nashville. 'Tis said they planned to attend the Grand Ol' Opry. . . . Medical Director Dr. Paul D. Scofield was ill for a few days last week and was missed by his constituents.

The Plant Records Department welcomes Pat Kirk to the group.

Robert G. Orrison, Sr., of the Superintendents Department, had his brand new son christened Sunday with Episcopal services—naming the youngster Robert Garrett Orrison, Jr. Lieut. Col. H. P. McCormick and Mrs. McCormick were god-father and god-mother to the little boy. . . . Marie Greenway spent a recent week end with her parents in Spartanburg, S. C.

W. L. Scott, former employee of Research Engineering, is the proud father of a baby girl born February 6. She has been named Nancy Elizabeth.

Friends of Wallace L. Dobbins, 31, former Y-12er who left here in December, 1947, for California, were grieved to learn of his death December 19 as a result of injuries sustained in an automobile accident December 11 near Riverside, Cal. Among survivors are a brother, Harry Dobson, another former Y-12 employee now with Fairchild, and the widow. Funeral and interment was held in Riverside.

During observance of Boy Scout Week throughout the nation last week, the following story came to light. . . . It seems that three Scouts, out of breath, reported to their scout master that they had just completed their good deed for the day.

"We helped an old lady across Jackson Square," they puffed.

"Why did it take all three of you?" asked the scout master, praising the lads.

"Because," said one scout, "she didn't want to go."

The Y-12 Laundry welcomes Leila Leslie back to work after an extended illness and extends a wish for a speedy recovery to the father of Flossie McGee.

Get well quick wishes also are extended by the Isotope Research and Production Department to Bill Peed, who was on the sick list last week.

W. T. Hays, of the Security Office, still is out of action with his sinus ailment.

They got the "Big Mo" off that sandbar in Hampton Roads last week and about the same time the Housing Office's own "Little Mo" (Mozelle Kennedy) got back in service after a siege of illness.

Opal Griffin, of Employment, is another warmly welcomed back personage after being ill for several days.

The Health Physics and Hygiene Department extends a warm welcome to Richard W. Brothers, who recently joined the group.

Capt. W. O. Elam, of the Y-12 Fire Department, spent the last week end down in Alabama.

Alice Jamison, Genevieve Bryant and Allene Carpenter were hostesses at a stork shower for Patsy Levin on February 7. They are all together down in the Analytical Laboratory.

J. L. Titlow and M. E. Kitchens, of Electrical Maintenance, are receiving get well wishes from fellow employees from their recent spells of illness.

Mae Hale, of Electromagnetic Research Laboratory; and Lloyd Tolliver and John B. Kennedy, of Chemical; are others on the ailing list that have been extended rapid recovery wishes.

The Chemical Department also reports that W. T. McGee spent a recent week of his vacation at West Point, Tenn.

Nell Leonard, of the Assay Laboratory, spent the past week end



Y-12 Photos By Vince Moore

MRS. FRANK SCHEITLIN, SEATED AT LEFT OF TABLE, WIFE OF A Y-12ER, WAS HONORED at a stork shower given Thursday night, February 2, at the home of Mrs. Wilfred T. Ward, 604 Florida Ave. Mrs. Ward, standing left, and Mrs. Bill Davis, at her left, were hostesses at the affair. Also standing in rear is Mrs. Wilma West. Seated around the table, in addition to Mrs. Scheitlin, from left are Mrs. Millie Tilson, Mrs. Merle Murphy with her young son, Mike; Miss Elizabeth Young, Miss Reba Justice, Mrs. Peggy Schmidt, Mrs. Roberta McCutcheon and Miss Jeanne Draughn. The guests mostly were Y-12ers or former employees here.



Only one Y-12 family was reported becoming parents at the Oak Ridge Hospital last week. Parents were Mr. and Mrs. Oscar M. Blackwell and the baby was a boy born February 7.

Brahms And Mozart Numbers Featured On Record Program

Works by Brahms and Mozart will feature the program to be presented by the Oak Ridge Music Listening Group at 8 o'clock Thursday night, February 16, in the East Lounge of the Ridge Recreation Hall. The public is cordially invited to the concert, admission to which is free, and refreshments are served during intermission.

The program will include the Quintet for Clarinet and Strings, by Brahms; Northumbrian Folk Songs, sung by Kathleen Ferrier, contralto, with Phyllis Spurr, accompanist; the Concerto Grosso in D Minor, by Vivaldi; and the Divertimento in D Major, by Mozart, with the Dumbarton Oaks Orchestra conducted by Alexander Schneider.

Old Hen: "Let me give you a bit of advice."

Young Hen: "What is it?"

Old Hen: "An egg a day keeps the axe away."

at her home in Rogersville. . . . Marcelle Ferguson and Annie Rogers took a brief tour of South Carolina points during the same time.

Phyllis Johnson, of the Uranium Control and Computing Department, is riding around gaily in a bright green 1950 Ford. . . . Marilyn Gordon had as recent guests her mother and an aunt from Middletown, Conn. . . . The department is extending congratulations to W. E. Belvin, who was married January 28 in Chattanooga to Leona Dodd. They are living in Oak Ridge.

S. W. (Sid) Sayre, former Y-12er under the Tennessee Eastman regime and who will soon go to Longview, Tex., with a new TEC installation there, was a visitor last week on business and likewise telling a lot of old friends s'long.

Well, dear hearts and gentle people, hope y'all had a good Fri to Monday. See you next week.

Electricians Regain Lead In Attendance

(Continued from Page 1)

putting Department, in fourth place for the week ending January 29, and the Technical Service Laboratory, in fifth place the same week, rose to a tie for top position with no absences recorded.

Superintendents Hold Position

The Superintendents Department, in second place for the week ending January 29, held the same position the following week with an absentee record of .6 per cent. In third place was Receiving and Shipping with 1.3 per cent of its personnel absent.

The plant-wide absentee record for the week ending February 5 was 3.3 per cent, an increase of .4 per cent from the preceding week. The record, by departments, follows:

MAJOR LEAGUE			
Dept.	More Than 50 Employees	Percentage Absent	Scheduled Standing
2077	1.1	1	7
2282	1.6	2	4
2091	2.0	3	2
2320	2.1	4	3
2616	2.2	5	6
2619	2.8	6	8
2300	3.1	7	1
2014	3.9	8	11
2360	4.0	9	5
2283	4.3	10	9
2003	4.6	11	10
2142	5.1	12	12
2015	5.7	13	4

Group absentee percentage was 3.1 per cent, .1 per cent higher than the preceding week.

MINOR LEAGUE			
Dept.	15-49 Employees	Percentage Absent	Scheduled Standing
2008	0.0	1	1
2133	0.0	1	1
2739	0.0	1	4
2270	0.0	1	5
2200	0.6	2	2
2143	1.3	3	1
2140	2.8	4	10
2001	2.9	5	1
2743	3.1	6	6
2002	3.2	7	5
2005	3.4	8	8
2107	5.3	9	3
2009	6.7	10	11
2060	6.9	11	7
2096	8.0	12	11
2090	13.3	13	11
2109	13.3	13	9

Group absentee percentage was 3.6 per cent, one per cent higher than the preceding week.

The plant average for the week ending February 5 was 3.3 per cent, .4 per cent higher than the preceding week.

COLLINS TO BROOKHAVEN

The Rochester, N. Y., Democrat-Chronicle, has reported that Dr. George B. Collins, of the University of Rochester, will become head of the "accelerator program" at the Brookhaven National Laboratory.



The following Y-12 employees were patients last week in the Oak Ridge Hospital: Nina F. Lowery, Product Chemical; Cephas Brewer, Steam Plant; Betty J. Sherman, Analytical Laboratory; Raymond R. Patterson, Buildings and Grounds; Ray L. Hill, Maintenance Shops; Osmer M. Garrett, Isotope Research and Production; Daisy M. Whitehead, Medical.

Sorority Planning Style Show, Bridge

The Alpha Rho Chapter of the Beta Sigma Phi sorority will give a style show and benefit bridge party at 7 o'clock Friday night, February 24, at the Oak Terrace. Part of the proceeds will go to the University of Colorado for the cancer fund of the international organization of the sorority for business women. Another portion of the proceeds will be used for the Oak Ridge Cancer Fund project.

Reservations for the affair must be made by February 23 with the price of tickets being 50c each. Reservations may be made from Lou Carter, telephone 5-8875 after 5 p.m., or from Helen Handley, telephone 5-8894 anytime.

Carbide Wives Set Meeting Wednesday

The Carbide Wives will hold their monthly social meeting at 7:30 o'clock tonight, Wednesday, February 15, in the East Lounge of the Ridge Recreation Hall. All wives of Y-12 employees are cordially invited to attend the function, where bridge and rummy will be played and refreshments served.

Mrs. Rudolph Paluzelle, member of the executive board of the organization, will be in charge of the affair. Hostesses will include Mesdames C. W. Loveland, chairman; W. S. Herron, Ralph H. Ford, D. G. Davis, M. L. Simmons, Joseph Dykstra and B. F. Shinn.

Where's Henry?" asked a neighbor boy. "I'm not sure," replied Henry's mother. "If the ice is as thick as he thinks it is, he's skating. If it's as thin as I think it is he's swimming."

CARBIDE WILL PRESENT WORLD SERIES MOVIES FRIDAY AT JEFFERSON

It won't be long now until the crack of bat against ball will mark the opening of another baseball season. Spring training for many teams begins soon and for Oak Ridge diamond fans spring training can be ushered in by attending movies of the 1949 world series game between the New York Yankees and Brooklyn Bums. The pictures will be shown—absolutely free of charge—at 7 o'clock and again at 8 o'clock Friday night, February 17, in the old gymnasium of the Jefferson Junior High School under auspices of the Recreation Departments of the three Carbide units in Oak Ridge. So, if you don't remember who won, come on out to the ball games.

Jays Tied For First Place; Birds Defeated Despite 21 By Prater

Manager Ralph Ford's Blue Jays, one of the two Y-12 entries in the Oak Ridge Class B Recreation Basketball League, donned their trim new blue and white jerseys last Thursday night for the first time and kept their second half of the season record intact by turning back the Oak Ridge National Laboratory Chemists by the score of 36 to 31 in a well-played game on the Jefferson hardwood.

By virtue of the victory, the Jays kept pace with the fast-rolling Barber Buick quintet that had yet to drop a decision during the entire season through last Thursday night's tilts.

Prater Scores 21 For Birds

The other Y-12 entry in the Recreation League, the Speckled Birds, gave the Buick boys quite a contest before dropping a 50 to 46 verdict. Bill Prater, of the Birds, was the high point man of the entire game as he dropped 21 points through the hoops.

Games scheduled for Monday night, February 6, at the Jefferson had to be postponed because of a discovery at the last minute that a metal basket support had cracked, leaving the rims dangling. The postponement came as a disappointment to the two Y-12 teams and fans as the Jays and Birds had been scheduled to play each other on this card.

Next Games Thursday Night

The next league games will be staged Thursday night at the Oak Ridge High School floor with the Birds slated to play the Chemists at 7 o'clock and the Jays meeting AEC one hour later. The Buick quint and the ORNL Instruments will wind up the program at 9 o'clock. No games are scheduled for next Monday night, but on Wednesday night, February 22, at the high school gymnasium the Jays will tackle the Instruments at 7 o'clock, the Birds will play AEC at 8 o'clock and the Chemists will go after Barber at 9 o'clock.

The usual triple-header was played Monday night of this week at Jefferson. In one of these clashes the Blue Jays tangled with the Barber Buick five so the league lead, for the time being, was at stake in that one.

League standing as of last Friday follows:

Team	W	L	Team	W	L
Barber Buick	2	0	Instruments	1	1
Blue Jays	2	0	S. Birds	0	2
AEC	1	1	Chemists	0	2

WOULD HOLD MILITARY DATA

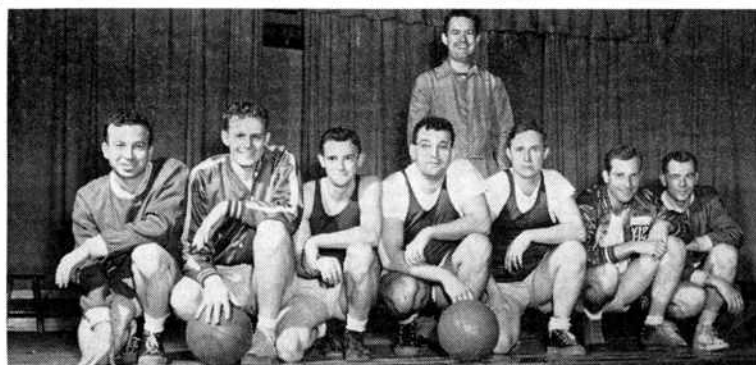
Arthur H. Compton, chancellor of Washington University, is quoted in the St. Louis Post Dispatch as saying the way to beat Russia at the "game of science" is through open interchange of ideas as far as possible without releasing military secrets.

"Your apartment is beautiful. Don't you like it?"
"No, I'm moving."
"Why, what's come over you?"
"An opera singer."

Your life and job are at stake when you violate safety rules.

SPORTS NEWS

Y-12 Cagers Face Light Schedule; Cards Lose; Robins Win Last Week



6-1157

Y-12 Photos By Vince Moore

THE BLUE JAYS, ONE OF THE TWO Y-12 ENTRIES IN the Oak Ridge Recreation Basketball League, are shown above. Standing in rear is Manager Ralph Ford and from left in the front row are Hugh Rice, Otis Rackley, R. G. Marlar, Paul Tribilcox, H. A. Keen, Fred Guttery and J. H. Shoemaker.

Y-12 Keglers Will Offer Strong Competition In Carbide Tourney

A formidable flock of pin pounders from Y-12 will be ready to pit their bowling skill against the keggers of the other Carbide units in Oak Ridge when the roll is called for the Company tournament events at the Oak Terrace and Jefferson alleys February 25-26 and March 4-5. Both men and women bowlers, individually and in doubles and five-person teams, poured in entries late last week and Monday morning to beat the Monday noon deadline.

As of noon Monday there were 17 teams, 31 doubles teams and 46 aspirants for singles honors entered and qualified and with all fees paid ready to begin firing in the tournament, first of its kind ever staged in Oak Ridge.

Of these entries the men placed 13 teams, 26 doubles groups and 38 singles. The women of the plant had four teams, five doubles combinations and eight singles ready to go in the tournament.

Although word was lacking from K-25 and Oak Ridge National Laboratory, indications last week pointed to large entry lists from both of those Carbide units.

Men's Varsity Bowlers Split Close Battle With Hoskins

The Y-12 men's varsity bowling team won two games out of three against the Hoskins Druggists February 6 but had to be content with an even split of points as the Druggists outscored the Y-12ers in total pins by the small margin of 10. The Y-12 keggers posted games of 804, 812, 838—2,454 to 752, 896, 816—2,464 for Hoskins.

Consistent Ernie Cobble led the Y-12ers with 169, 170, 178—517. Elmore Koons was close behind with 169, 157, 181—507. Then came Frank Gragg with 142, 165, 182—489; Ruby Pletz 162, 182, 141—485; and Conrad Roberts with 162, 138, 156—456.



6-1100

Y-12 Photos By Vince Moore

THE SPLINTERS BOWLING TEAM OF THE D LEAGUE, standing in the picture above, took four games from the Old Men, in foreground, in play last week. Members of the Splinters, from left, are Harold Ratjen, M. R. Wiest, George Mitchel, Bill Morgan and Leo Caldwell. The Old Men are George Nessle, Charles Coleman, Paul Blakely, Lyle Overholser and Bill Davis.

Bumpers Clinch Title In B Second Round

The Bumpers walked off with second round honors in the B League of plant pinmen last Thursday night at the Oak Terrace alleys by taking the All Stars for a three-point win while the second-place Comets were turning in a similar victory over the Rippers.

Wolves Won First Round

The Wolves won the first round of the league race in a roll-off with the Rippers after the regular schedule had ended in a deadlock.

Two whitewash victories were turned in last Thursday night, the Wolves nipping four points from the Head Pins and the Mules kicking the Cubs for a like number of points. The Tigers split even with the Bums and Maintenance and One-91 also divided honors.

The Wolves took most of the scoring honors for the night with a scratch 853 single and 2,533 series, boosted to 2,947 with handicap. The Bumpers banged out a 995 handicap single game for tops in that bracket.

Although his team got trimmed, Bill Burns, of the All Stars, posted a sparkling 223 scratch single game and boosted it to 248 with handicap. Frank Gragg, of the Wolves, took series honors with a 607 scratch, high for the second round of play, and 661 handicap.

League standing follows:

Team	W	L	Team	W	L
Bumpers	32	12	Head Pins	20	24
Comets	29	15	Maintenance	18	26
Wolves	28	16	Cubs	17	27
Mules	27	14	Rippers	17	27
All Stars	26	18	One-91	16	28
Tigers	23	21	Bums	11	33

ATHENS BASKETEERS MEET Y-12ERS SATURDAY

The Y-12 Cardinals and Robins will take time out from their Oak Ridge City League chores Saturday night to play host to basketballers from Athens, Tenn. The double-header will start at 7:30 p.m. at the new gymnasium of the Jefferson Junior High School and admission is free. In an earlier visit to Athens the Robins dropped a tough 23 to 21 decision and will be out for revenge. The Cards trimmed the Athenians on their home court by 51 to 39, but Coach Frank (Father Time) Darby's boys have such a charming habit of inconsistency that anything might happen. So come out—you Y-12 fans—and root for the Red and White cagers.

The Y-12 Cardinals, giant-killers for one week when they bumped off Trico and K-25, found the tables turned last week when they dropped a pair of cage clashes to Fairchild and Clinton. Meanwhile the Robins marched right along with a pair of Oak Ridge City League victories but dropped a non-loop tilt last Tuesday night to a Y.W.C.A. sextet from Knoxville.

Robins Play R-A Twice

The schedule for the next week for both teams is fairly light. The Robins will be assigned the particularly tough job of meeting Roane-Anderson at 6:45 o'clock Friday night at the Jefferson gymnasium and the Cardinals will not get back into uniform until next Monday night at 6:45 o'clock when they play the ORNL basketballers. At 6:45 o'clock next Tuesday night the Robins play the ORNL Fillies and both Y-12 combinations are slated for action the following night, Wednesday, February 22, when the Cards play Southern Bell and the Robins again have the thankless job of meeting Roane-Anderson.

However, the Cards played both Monday and Tuesday nights of this week and had the unhappy prospects of playing the two teams they licked on their last meetings—Trico and K-25. The Robins were to have played the K-25 lassies Tuesday night.

Y-12ers Beat ORNL Women

On February 6 the Robins trounced the ORNL women by 27 to 22, although scoring only one point in the last period. Peggy Dickens led the Robins with 10 points, Judy Butler got eight and Helen Brown six. Neva Harrison, former Y-12er, poured in eight free throws and a pair of fielders for a dozen points for the Labsters while Frankie Rose, who scored more than 20 points against the Robins in one previous encounter, was well watched and scratched for only three.

Against Clinton last Wednesday the Robins coasted to an easy 31 to 18 win, the losers scoring only five field goals during the game. Helen Brown topped the scorers in this one with 13 tallies, followed by Jerry Kropowski with seven.

The Knoxville Y.W.C.A. outfit beat the Robins by 27 to 19 when the Y-12ers put up a rather spiritless game in their holiday from league competition.

The Fairchild cagers took advantage of every opportunity presented them as they walloped the Cards by 36 to 27 last week. However, the Y-12 men came back scrapping in the last periods of their clash against Clinton, but still could not quite pull ahead and dropped a 38 to 37 decision.

Varsity Keglerettes Wallop Second Place Tulip Town

The Y-12 women varsity bowlers put on their war paint last Thursday night and plucked the Tulip Town keglerettes, current second-place holders in the City League, for two games out of three. The scrap was close all the way with the total pinnage being 2,048 for Y-12 and 2,028 for the Tulip Town lassies.

The Y-12ers took the first game by the largest margin of any of the three tilts, scoring a 670 to 648 decision. Both teams rolled their best games of the night in the second engagement with Y-12 coming out on top by 702 to 691. Facing a humiliating session on the hardwood, the Tulip Towners rallied to win the finale by the narrow margin of 689 to 676.

Olyene Poindexter posted a fine 480 series to top the Y-12ers, putting together games of 178, 164 and 318. Next in line were Ruth Law with 122, 135, 143—400; Daisy Ward 123, 124, 146—393; Margaret O'Neal 123, 137, 131—391; and Katie Williams 113, 124, 116—353.

Nature has given woman so much power that the law cannot afford to give her more.

Materializers Again Win By Whitewash

The Materializers seem determined to make a runaway race out of the third round of play in the D League of plant bowlers as midway in the period the team has not lost a single point while racking up 16 at the expense of other teams in the loop. Their latest triumph was over the Overheads, who were whitewashed February 7 and thereby knocked out of a tie for third place down to sixth.

Angstroms Continue To Win

Almost matching the sensational play of the Materializers was that of the Angstroms who continued their winning streak at the expense of the Termites. The Angstroms took three out of four points from their opponents, leaving the Termites in second place and the Angstroms in third. In this engagement the three points were not decided until the last man had rolled and Lewis Twitchell pulled in a spare to take the series and game. The first two games were close with each team winning one and only three pins separated the foes as they went into the last clash. Although losing, the Termites had the best scratch series score of the night with 2,308 while Ernie Cobble's 527 scratch series for that team also was high. Twitchell and Paul Griffin were high scorers for the Angstroms but it was consistent team scoring that gave them the triumph.

The Materializers turned on the heat at the start and were never headed by the Overheads. The league-leaders romped home with the high handicap series of the night with 2,878 in posting their victory as Carl Frazier, Fred Boody, Jim Keeton, Frank Knox and Bob Kelly all fired steady games. Elmore Koons got a 500 scratch series for the losers and Clyde Bowles also rolled well and picked up two five-seven splits in one game but complained that he had too many of them at which to shoot.

Old Men Whitewash Splinters

The Old Men whitewashed the Splinters and shot the highest handicap single game of the round with a 1,027. Their scratch single game of 812 also was high for the night. John Schmitt had a 509 scratch series for the winners and was backed up by good shooting by Charles Coleman, Keith Brown, George Nessle and Lyle Overholser.

The Strikers jumped on the undermanned Isotope team for another whitewash win but would have been hard to beat under any circumstances as Bill Burns topped the single scorers of the night with a 214 scratch and 247 handicap score. Ray Duckworth also came through with a 632 handicap series for the winners.

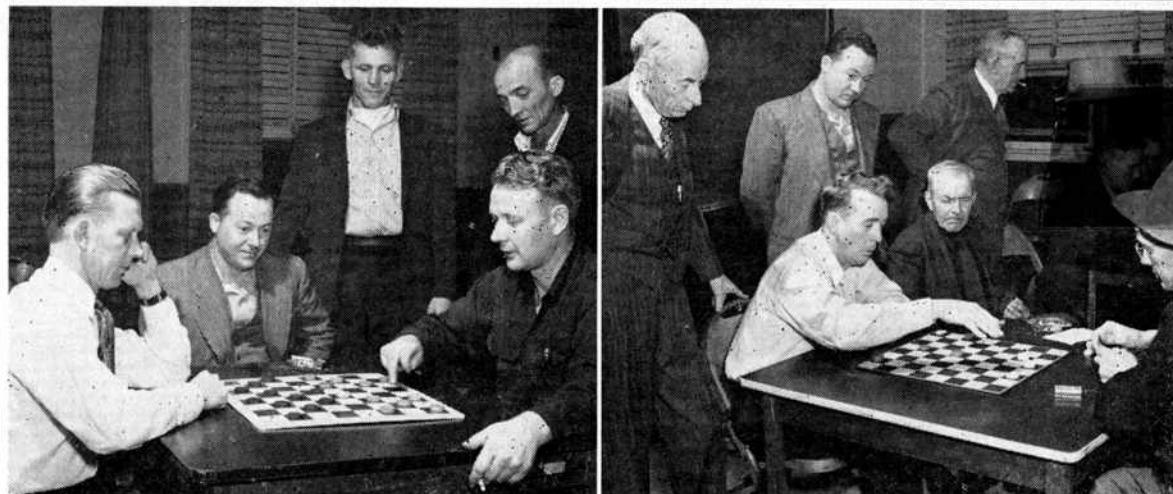
League standing follows:

Team	W	L	Team	W	L
Materializers	16	0	Old Men	7	9
Termites	11	5	Overheads	6	10
Angstroms	9	7	Splinters	5	11
Strikers	8	8	Isotopes	2	14

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Cardinals Drop Tough Decision To Aces, 61-50

Y-12 fans who did not make the trip down to Chattanooga last Saturday night missed seeing the Y-12 Cardinals play one of their finest games of basketball of the season, only to lose to the Dixie Aces, one of the top-ranking quintets of the Lookout City. The 'Nooga outfit, behind by 43 to 41 at the beginning of the fourth quarter, took a big hitch in their belts and put on a sizzling rally to score 20 points to but seven for the Cards and emerge with a 61 to 50 victory.

The Cards took a 16 to 8 lead in the opening chapter, but trailed by 29 to 26 at the half. Spirited play by the Red and White enabled the team to pull ahead by 43 to 41 at the three-quarter pole but then the roof fell in. Dance, with 16, and Oliphant, with 11, points led the Cards while Babb and Robertson got six each and Hopper and Claxton five apiece.

The Aces will pay a visit to Oak Ridge February 25 for a return clash with the Cards. The game will be played at the Jefferson Junior High School and a preliminary tilt pitting the Y-12 Robins against an outside foe probably will be arranged.

Jim: "I fell over 50 feet today."

Jerry: "Were you hurt?"

Jim: "Now, I was just trying to get out of a crowded Knoxville bus."

an alcohol that may be the solvent for varnish.

Look back a moment at the loading platform. See that carton marked Dynel? Dynel is a synthetic fiber and is one of the new products here. Bales of it are being made in that new-looking building. That's the Yarn Development Building, and right now it has been turned into a model fiber and yarn-making plant. Test samples of Dynel are being made there, while the preparations to get the product into full production are going ahead. Only a few things are being made now with Dynel—blankets and work clothes—but by this summer more will be heard about it after full production gets going.

Dynel is just one of several new products. Today new products get their start at the new Research Center, which is back on the side of the over-looking hills. Chemists are hard at work up there, in modern laboratories, experimenting with new products or improvements on old ones. When they hit on one, it is sent down to the plant for development, for the construction of equipment, and finally for production. At first it is generally considered a "fine chemical." That is, only a limited amount of it is made. But as the market starts to open up, it moves out of the "fine chemical" stage into the bulk-product or industrial chemical stage.

New products are of tremendous interest to the plant, and the whole chemicals group. After all, Carbide got its start in research. There is quite a list of products now. Actually there are more than 250 different chemical products at South Charleston, and they go into everything from aspirin to automobiles. That is why Carbide and Carbon Chemicals has had a lot to do with making America's standard of living as high as it is today.



Y-12 Photos By Vince Moore

CARBIDE EMPLOYEES AT SOUTH CHARLESTON HAVE a diversified recreation program with some of the activities pictured above.

West Virginia's 'Magic Valley' Is Home Of Carbide's Main Plant

(Continued From Page 1)

Others form new materials not found in nature. Every one of the new patterns, however, is a needed chemical today.

Pipe Lines Bring Natural Gas

The pipe lines that are bringing raw materials into the plant are invisible—but they are there, underground. They're bringing natural gas—the most important raw material. Some of those lines come from other Carbide plants, in Diamond and Hastings, W. Va., and Leach, Ky., where the gases are given a preliminary processing to make them into suitable raw materials.

Out there on the river a barge is being nosed against a dock by a tug. The barge has been pushed all the way up the Mississippi and Ohio to the Kanawha River from the Texas City plant of Carbide. It's loaded with chemicals made at the Texas City plant that will be further processed at South Charleston and turned into other chemicals.

Freight Cars Haul Materials

Down there, at the far end of the plant, and up here at the other end, are spur railroad tracks leading into the plant. Freight cars, loaded with lime, sulphur, and other raw materials are brought in over these tracks.

All these materials are headed for the production units all over the plant. But before getting into the production end of things, take a look at a few of the buildings that help prepare the raw materials and provide other things needed in production. That long, low building is the furnace building. In it a row of squat, square monsters heat gases to crack them for process operations. That steady "put-put" is from the compressor building, where huge horizontal pistons sweep back and forth to build up gas pressure. The huge, cylindrical columns surrounded by the tall steel framework, make up a gas separation unit where the component parts of raw material gases are picked out and refined before starting through production. There is another building out on the island that is one of the plant's power houses. The tremendous boilers inside operate with a quiet hiss as they make the plant's steam.

Production Unit Is Quiet

Across the bridge at one of the production units on Blaine Island it's fairly quiet. There doesn't seem to be much going on. The only noise is the hum of some motors

and the hiss of escaping steam.

The production unit looks imposing. Pipes, framework, platforms—reached by ladders—tower high in the air. But the heart of the building is the control room. All the dials and gauges on the panels against the walls are about the only indication that anything is going on. An operator is seen taking his readings and noting them down in his "log book." He makes regular checks of every control. Now he's going outside, probably to adjust a valve or draw off some of the chemicals and run a basic check on them. The chemicals are not seen. They're swirling through those pipes, and in the tanks and columns outside, being worked on by the chemical tools.

Maintenance Crews Are Important

Notice that fellow working at the next production unit over there with the wrench in his hand. He's one of the maintenance crew. Maintenance is a big job at the plant that goes on right around the clock. The maintenance group has painters, carpenters, pipe fitters, welding operators, and many other kinds of mechanics in it. They keep a check on every piece of equipment in the plant, and whenever a pipe line needs to be repaired, new equipment needs to be installed, or any of the other types of repair and maintenance jobs need to be done, they're the ones who are called on to do it.

How about taking a look at the shipping crew?

A loading platform back on the mainland is a good place to start. Those drums, being trundled into the freight cars, are full of chemicals. The labels on the paper bags over there say Vinyl resins. Someday those powdery resins may come to you in the form of tough, colorful plastic shower curtains or a phonograph record or any of 1,000 other plastic items. This drum is filled with solvent, a chemical that may help to dye cloth. The one being loaded into the car is labeled fumigant. This fumigant may, for one thing, keep grain fresh until a manufacturer mills it into flour.

Cars Loaded From Pipe Lines

Cars can be seen being loaded right from pipe lines coming from production units. That first car being loaded has an acetic anhydride label tied on the dome. One of these days an aspirin tablet or a rayon dress may be manufactured with some of that chemical. That other tank car is being filled with



6-1149

Y-12 Photos By Vince Moore

CHECKER ENTHUSIASTS FROM OAK RIDGE AND ELSEwhere had a big time Saturday night, February 4, at the Ridge Recreation Hall in a "checker fest" that drew visitors from as far as Atlanta, Ga. In the top left picture a group of Y-12 devotees of the game gather around one table. E. A. Fritts, seated at left, is playing Floyd H. Ludwig while in the rear, from left, looking on are C. O. Mathena, N. R. Corbin and K. N. Adkins. The top right picture shows J. L. Bolton, Atlanta expert seated at left, playing a draw with M. C. Cook, an expert in his own right, from Maynardville. Among the onlookers are H. O. Ramey, of Y-12, and Methena with other unidentified spectators. An overall picture of the session is shown at the bottom. The meeting drew nearly 40 persons with top playing honors being taken by Bolton and Benjamin F. Newsom, of K-25, former North Carolina state champion, who did not lose a set all night.

Woes Wangle Way To Lead In W League

Maybe they are trying to show the rest of the girls in the league that matrimony and bowling go hand in hand—for the Woes (Wives of Employees) team in the Y-12 W League for feminine keggers continued their steady string of victories and finally climbed into first place in the circuit last Wednesday night in alley activities down at the Jefferson.

Woes Maintain Consistency

For the sixth week hand running the Woes took two out of three games, this time victimizing the lowly Spinners. The Controllers, who for some time have had a firm lease on first place, had to bow out of the lead as they were dumped twice by the Dodgers. Meanwhile, the Hi Balls dumped the Kemps for two and landed in a tie with the Controllers for the runner-up spot in the circuit. In the other league clash the Pick Ups picked up a pair from the Rattlers, placing the victors in a tie with the Kemps.

Despite their surge to the top of the loop, the Woes did not land a single high scoring mention for the entire night. The Hi Balls came through with the important top high handicap series of the night with 2,072. Two losing teams, the Controllers and Spinners, had the other team honors. The Controllers had the best scratch scores of 653 for a single game and 1,907 for a series. The Spinners posted a 920 handicap single game.

Ann Hamilton Sweeps Honors

Ann Hamilton, rolling for the Hi Balls, monopolized all individual honors for the night. She fired a 165 scratch single game, boosted to 222 with handicap and ran a 436 scratch series to 607 with handicap to sweep the field.

League standing follows:

Team	W	L	Team	W	L
Woes	12	6	Pick Ups	10	8
Controllers	11	7	Dodgers	9	9
Hi Balls	11	7	Rattlers	7	11
Kemps	10	8	Spinners	2	16

A young bride, disturbed by her husband's presence in the kitchen while she was preparing dinner, accidentally knocked her cookbook to the floor. "You've made me lose the place," she cried, "and I haven't the least idea what I'm cooking."

Hooks Nearly Catch Orphans In C League

The Hooks pinmen of the C League almost jumped into the league lead last Wednesday night at the Central alleys by ploughing the Moles deeper in the circuit standing by taking three out of four points while the top spot Orphans were taking a three-point loss from the Hornets.

Hornets Sting Orphans For Three

The Orphans had taken a good lead in the loop the previous week by mauling the unfortunate Moles for a four point whitewash but were thoroughly stung for three points by the Hornets who had the top handicap single game of the night with 974, and tied for scratch single game of 753 with the upsurging Hooks, whose 2,817 handicap series also was tops. Although trounced, the Orphans had the best scratch series score of 2,163.

Ray Duckworth, of the Hornets, had the best handicap single game of the night with 216 and the best handicap series of 592. Elmore Koons, of the Orphans, led the gang with a 186 scratch single game while Arms, of the Hooks, posted the top scratch series of 481.

Short Circuits Get Hot

The Guards lost an opportunity to advance in the league standing by splitting even with the Thin Pins and the Short Circuits became "hot wires" by snapping out of a slump, blowing the fuses of the Hurricanes to the extent of three big points.

League standing follows:

Team	W	L	Team	W	L
Orphans	17	7	Thin Pins	11	13
Hooks	16	8	Hurricanes	10	14
Guards	15	9	Moles	8	16
Hornets	12	12	Short Circuits	7	17

O'Dwyer's Atomic Project Praised

Mayor James O'Dwyer, of New York City, and his Advisory Committee on Atomic Energy recently were highly praised by Brig. Gen. Romulo, president of the United Nations General Assembly, for helping to educate the public on atomic energy. The United Nations leader referred to the educational plan launched by New York on the peaceful uses of atomic energy that began with the exhibition, "Man And The Atom."